

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

James A. Proctor, Jr.

Application No.: 10/634,148

Confirmation No.: 5101

Filed: August 4, 2003

For: FORWARD ERROR CORRECTION
SCHEME FOR HIGH RATE DATA
EXCHANGE IN A WIRELESS SYSTEM

Group: 2618

Examiner: Edan Orgad

Our File: TAN-2-1407.02.US

Date: April 10, 2007

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed Form PTO-1449.

The listed references include references previously cited in this application. Newly cited documents are indicated by an asterisk (*) on the enclosed Form PTO-1449.

Applicant: James A. Proctor, Jr.
Application No.: 10/634,148

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the Form PTO-1449 indicating his consideration of the cited materials.

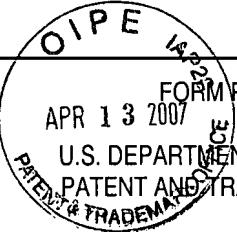
Respectfully submitted,

James A. Proctor, Jr.

By Joseph P. Gushue
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JPG/ci
Enclosures

 FORM PTO-1449 APR 13 2007 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		ATTY. DOCKET NO. TAN-2-1407.02.US	SERIAL NO. 10/634,148
		APPLICANT James A. Proctor Jr.	
		FILING DATE August 4, 2003	GROUP 2618

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	*	4,460,992	07/17/84	Gutleber			
	*	4,625,308	11/25/86	Kim, et al.			
	*	4,862,453	08/29/89	West, et al.			
	*	4,866,709	09/12/89	West, et al.			
	*	5,027,348	6/25/91	Curry, et al.			
	*	5,103,459	04/07/92	Gilhousen, et al.			
	*	5,115,309	05/19/92	Hang			
		5,373,502	12/13/94	Turban			
	*	5,394,473	02/28/95	Davidson			
		5,442,625	08/15/95	Gitlin et al.			
	*	5,487,072	01/23/96	Kant			
	*	5,559,788	09/24/96	Zscheile, Jr. et al.			
	*	5,559,790	09/24/96	Yano et al.			
	*	5,602,834	02/11/97	Dean et al.			
	*	5,606,574	02/25/97	Hasegawa, et al.			
	*	5,663,958	09/02/97	Ward			
		5,663,990	09/02/97	Bolgiano et al.			
		5,673,259	09/30/97	Quick, Jr.			
	*	5,699,364	12/16/97	Sato, et al.			
	*	5,699,369	12/16/97	Guha			
		5,734,646	03/31/98	I et al.			
	*	5,777,990	07/07/98	Zehavi, et al.			
	*	5,781,542	07/14/98	Tanaka, et al.			
		5,784,406	07/21/98	DeJaco et al.			
		5,790,551	08/04/98	Chan			

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	*	5,805,567	09/08/98	Ramesh			
	*	5,825,807	10/20/98	Kumar			
		5,828,659	10/27/98	Teder et al.			
		5,828,662	10/27/98	Jalali et al.			
		5,844,894	12/01/98	Dent			
		5,856,971	01/05/99	Gitlin et al.			
		5,859,840	01/12/99	Tiedemann, Jr. et al.			
		5,910,945	06/08/99	Garrison et al.			
		5,914,950	06/22/99	Tiedemann, Jr. et al.			
	*	5,917,852	06/29/99	Butterfield et al.			
		5,923,650	07/13/99	Chen et al.			
		5,930,230	07/27/99	Odenwalder, et al.			
		5,950,131	09/07/99	Vilmur			
		5,991,279	11/23/99	Haugli et al.			
		6,005,855	12/21/99	Zehavi et al.			
		6,028,868	02/22/00	Yeung et al.			
		6,064,678	05/16/00	Sindhushayana et al.			
		6,069,883	05/30/00	Ejzak et al.			
		6,078,572	06/20/00	Tanno et al.			
	*	6,104,708	08/15/00	Bergamo			
		6,088,335	07/11/00	I et al.			
		6,112,092	08/29/00	Benveniste			
		6,134,233	10/17/00	Kay			
		6,157,619	12/05/00	Ozluturk et al.			
		6,161,013	12/12/00	Anderson et al.			
		6,196,362	02/27/01	Darcie et al.			
		6,208,871	03/27/01	Hall et al.			
		6,215,798	04/10/01	Carneheim et al.			
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		6,222,828	04/24/01	Ohlson et al.			
		6,243,372	06/05/01	Petch et al.			
		6,259,683	07/10/01	Sekine et al.			
		6,262,980	07/17/01	Leung et al.			
		6,269,088	07/31/01	Masui et al.			
		6,272,168	08/07/01	Lomp et al.			
		6,285,665	09/04/01	Chuah			
		6,307,840	10/23/01	Wheatley, III et al.			
		6,366,570	04/02/02	Bhagalia			
		6,373,830	04/16/02	Ozluturk			
		6,373,834	04/16/02	Lundh et al.			
		6,377,548	04/23/02	Chuah			
		6,377,809	04/23/02	Rezaifar et al.			
		6,389,000	05/14/02	Jou			
		6,396,804	05/28/02	Odenwalder			
		6,418,148	07/09/02	Kumar et al.			
		6,456,608	09/24/02	Lomp			
		6,469,991	10/22/02	Chuah			
		6,473,623	10/29/02	Benveniste			
		6,504,830	01/07/03	Östberg et al.			
		6,519,651	02/11/03	Dillion			
		6,526,039	02/25/03	Dahlman et al.			
		6,532,365	03/11/03	Anderson et al.			
		6,545,986	04/08/03	Stellakis			
		6,567,416	05/20/03	Chuah			
		6,570,865	05/27/03	Masui et al.			
		6,571,296	05/27/03	Dillion			
		6,574,211	06/03/03	Padovani et al.			
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		6,597,913	07/22/03	Natarajan			
	*	6,614,776	09/02/03	Proctor			
	*	6,885,652	04/26/05	Ozukturk et al.			
	*	6,940,840	09/06/05	Ozluturk et al.			
	*	6,973,601	12/06/05	Sabet et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
*		0443061	02/21/90	EP			X	
*		0635949	07/18/94	EP			X	
*		0827312	08/07/97	EP				
*		2266389	04/02/74	FR			X	
*		2761557	03/28/97	FR			X	
*		95/08900	03/30/95	WO				
*		96/13914	05/06/96	WO				
*		98/43373	10/01/98	WO			X	
*		98/59447	12/30/98	WO				
*		99/14878	03/25/99	WO				
*		99/39472	08/05/99	WO				
*		99/44341	09/02/99	WO				
*		00/52831	09/08/00	WO				
*		00/65764	11/02/00	WO				

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OTHER DOCUMENTS		
EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 2005	
	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996	
	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995	
	Liu et al., Channel Access and Interference Issues in Multi-Code DS-CDMA Wireless Packet (ATM) Networks, Wireless Networks 2, Pages 173-196, 1996	
	Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241	
	Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181	
	Cellular Digital Packet Data, System Specification, Release 1.1 January 19, 1995	
	Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03)	
	Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).	
	Packet Data service Option Standard for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard, TIA/EIA/IS-657, July 1996	
	Mobile Station -Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System, TIA Interim Standard, TIA/EIA/IS-95-A (Addendum to TIA/EIA/IS-95), May 1995	

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	Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems, TIA/EIA Standard, TIA/EIA-95-B (Upgrade and Revision of TIA/EIA-95-A), March 1999
	Network Wireless Systems Offer Business unit (NWS OBU), Feature Definition Document for Code Division Multiple Access (CDMA) Packet Mode Data Services, FDD-1444, November 26, 1996
	Draft Text for "95C" Physical Layer. (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-9812014-95c,%20part5202.pdf , 1998)
	Draft Text for "95C" Physical Layer. (Revision 4), Part 1, Document #531-981-20814-95C, part 1 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-9812014-95c,%20part5202.pdf , 1998)
	Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699
	Hindelang et al., Using Powerful "Turbo" Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA November 3-8, 1997 Vol. 11, Pages 649-653
	Kaiser et al., Multi-Carrier CDMA with Iterative Decoding and Soft-Interference Cancellation, Proceedings of Globecom 1997, Vol.1, Pages 523-529
	Wang et al., The Performance of Turbo-Codes in Asynchronous DS-CDMA, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1007, Vol. III, Pages 1548-1551
	Hall et al., Design and Analysis of Turbo Codes of Rayleigh Fading Channels, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, February 1998, Pages 160-174
	High Data Rate (HDR) Solution, Qualcomm, December 1998
	Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers
	Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, Revision 0.1, May 5, 1997
	Knisely, Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, January 16, 1997

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		Kumar et al., An Acess Scheme for High Speed Packet Data Service on IS-95 based CDMA, February 11, 1997
		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, April 14, 1997
		Lucent Technologies Presentation First Slide Titled, Summary of Multi-Channel Signaling Protocol, April 6, 1997
		Lucent Technologies Presentation First Slide Titled, Why Support Symmetric HSD (Phase 1C), February 21, 1997
		Kryzmien et al., Rapid Acquisition Algorithms for Synchronization of Bursty Transmissions in CDMA Microcellular and Personal Wireless Systems, IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996, Pages 570-579
		Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730
		Skinner et al., Performance of Reverse-Link Packet Transmission in Mobile Cellular CDMA Networks, IEEE, 2001, Pages 1019-1023
		Lau et al., A Channel-State-Dependent Bandwidth Allocation scheme for Integrated Isochronous and Bursty Media Data in a Cellular Mobile Information System, IEEE, 2000, Pages 524-528
		Elhakeem, Congestion Control in Signaling Free Hybrid ATM/CDMA Satellite Network, IEEE, 1995, Pages 783-787
		Chung, Packet Synchronization and Identification for Incremental Redundancy Transmission in FH-CDMA Systems, 1992, IEEE, Pages 292-295
		High Data Rate (HDR), cdmaOne optimized for high speed, high capacity data, Wireless Infrastructure, Qualcomm, September 1998
		Viterbi, The Path to Next Generation Services with CDMA Qualcomm Incorporated, 1998 CDMA Americas Congress, Los Angeles, California, November 19, 1998
		TS-25.211 V2.0. (1999-04) 3GPP, TSG, RAN, WG1 Physical channels and mapping of transport channels onto physical...

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		TS 25.212 V1.0.0 (1999-04) 3GPP, TSG, RAN, WG1 Multiplexing and channel coding.
		TS 25.213 V2-0.0 (1999-4) 3GPP, TSG, RAN, WG1 Spreading and modulation. (FDD)
	*	Author Unknown, "North American Cellular System Based On Code Division Multiple Access." Pp. 203-254.
	*	Lin, S., et al., "Automatic-Repeat-Request Error-Control Schemes," IEEE Communications Magazine, 22 (12): pp. 5-17 (December 1984).
	*	Hagenauer, J., "Rate-Compatible Puncture Convolutional Codes (RCPC Codes) and their Applications," IEEE Transactions on Communications, 36 (4): pp. 389-400 (April, 1988).
	*	Shacham, N., "A Selective-Repeat-ARQ Protocol for Parallel Channels and Its Resequencing Analysis," IEEE Transactions on Communications, 40 (4): pp. 773-782 (April, 1992)
	*	Wang, B.C., et al, "Spread Spectrum Multiple-Access with DPSK Modulation and Diversity for Image Transmission over Indoor Radio Multipath Fading Channels," IEEE Transactions on Circuits and Systems for Video Technology, 6 (2): 200-214 (1996).
	*	Goodman, David J., "Wireless Personal Communications Systems," (1997).
	*	Bell Labs Technical Journal, Lucent Technologies, Volume 2, Number 3, Summer 1997
	*	Pulleston, PPP Protocol Spoofing Control Protocol, Global Village Communication (UK) LTD., February 1996

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